LISTING OF CLAIMS:

What is claimed is:

1. (Currently Amended) A method in a data processing system for loading a class, the method comprising:

loading a class;

inserting an immutability flag into the class; determining whether the class is immutable; and

setting the immutability flag if the class is immutable.

2. (Original) The method of claim 1, wherein the step of determining whether the class is immutable comprises:

parsing the bytecode of the class.

3. (Original) The method of claim 2, wherein the step of determining whether the class is immutable further comprises:

determining whether the class can be modified after it is created.

- 4. (Original) The method of claim 3, wherein the step of determining whether the class can be modified comprises determining whether all properties of the object are marked private.
- (Original) The method of claim 3, wherein the step of determining whether the class can be modified comprises determining whether there are any non-private methods that update properties of the class.
- 6. (Original) The method of claim 1, further comprising: receiving a request to invoke a server application; examining an argument in the request; if the argument is an object, determining whether the object.

if the argument is an object, determining whether the object is immutable; and if the object is immutable, passing a reference to the object rather than a clone of the object.

7. (Original) The method of claim 6, wherein the step of determining whether the object is immutable comprises:

determining whether an immutability flag for the object is set.

8. (Currently Amended) A method in a data processing system for invoking an object, the method comprising:

receiving a request to invoke an object;

examining an argument in the request;

if the argument is an object, determining whether the object is immutable; and if the object is immutable, passing a reference to the object rather than a clone of the object.

9. (Original) The method of claim 8, wherein the step of determining whether the object is immutable comprises:

determining whether an immutability flag for the object is set.

- (Original) The method of claim 8, further comprising:
 if the object is not immutable, passing a clone of the object as the argument.
- 11. (Original) An apparatus for loading a class, comprising: loading means for loading a class; insertion means for inserting an immutability flag into the class; first determination means for determining whether the class is immutable; and setting means for setting the immutability flag if the class is immutable.
- 12. (Original) The apparatus of claim 11, wherein the first determination means comprises:

parsing means for parsing the bytecode of the class.

13. (Original) The apparatus of claim 12, wherein the first determination means further comprises:

second determination means for determining whether the class can be modified after it is created.

- 14. (Original) The apparatus of claim 13, wherein the second determination means comprises means for determining whether all properties of the object are marked private.
- 15. (Original) The apparatus of claim 13, wherein the second determination means comprises means for determining whether there are any non-private methods that update properties of the class.
- 16. (Original) The apparatus of claim 11, further comprising:
 receipt means for receiving a request to invoke a server application;
 examination means for examining an argument in the request;
 third determination means for determining whether the object is immutable if the argument is an object; and

reference means for passing a reference to the object rather than a clone of the object if the object is immutable.

17. (Original) The apparatus of claim 16, wherein the third determination means comprises:

means for determining whether an immutability flag for the object is set.

18. (Original) An apparatus for invoking an object, comprising: receipt means for receiving a request to invoke an object; examination means for examining an argument in the request; determination means for determining whether the object is immutable if the argument is an object; and

reference means for passing a reference to the object rather than a clone of the object if the object is immutable.

19. (Original) The apparatus of claim 18, wherein the determination means comprises:

means for determining whether an immutability flag for the object is set.

- 20. (Original) The apparatus of claim 18, further comprising: clone means for passing a clone of the object as the argument if the object is not immutable.
- 21. (Original) A computer program product, in a computer readable medium, for loading a class, comprising:

instructions for loading a class; instructions for inserting an immutability flag into the class; instructions for determining whether the class is immutable; and instructions for setting the immutability flag if the class is immutable.

22. (Original) A computer program product, in a computer readable medium, for invoking an object, comprising:

instructions for receiving a request to invoke an object; instructions for examining an argument in the request;

instructions for determining whether the object is immutable if the argument is an object; and

instructions for passing a reference to the object rather than a clone of the object if the object is immutable.